

FIG. 1

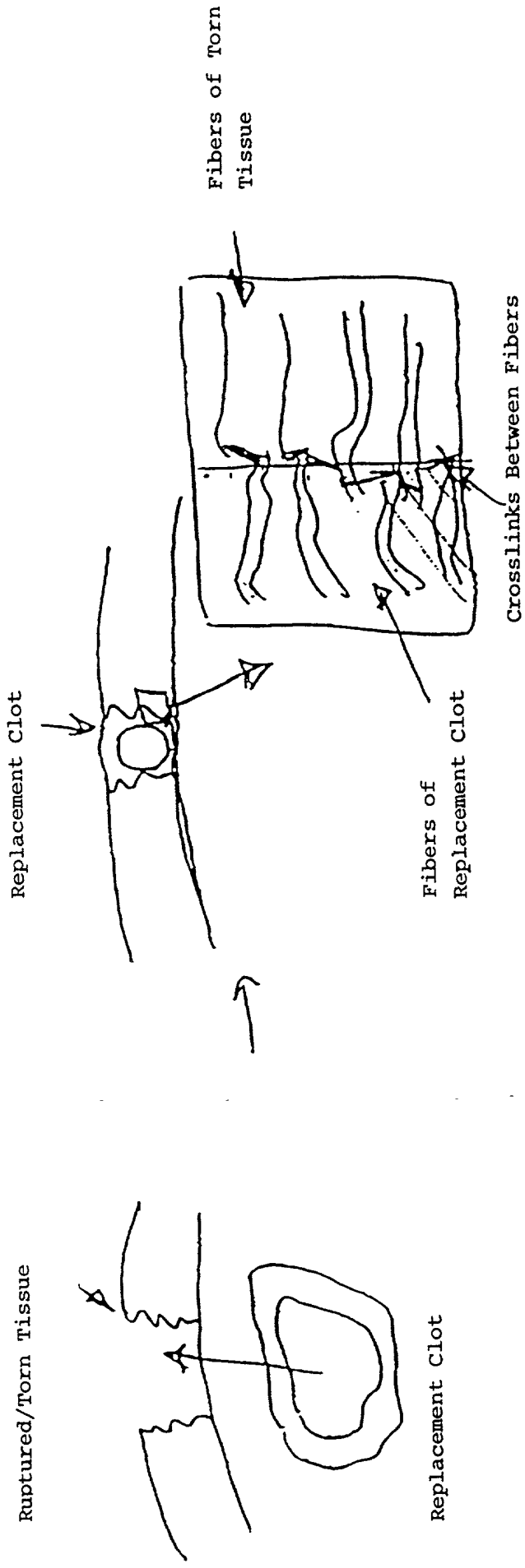


FIG. 2

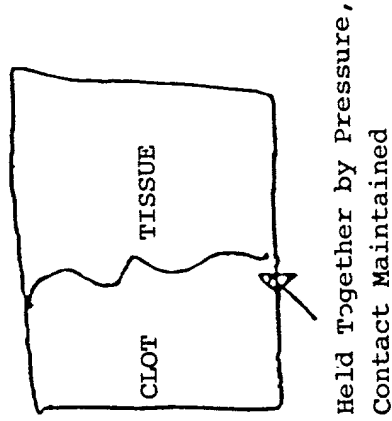
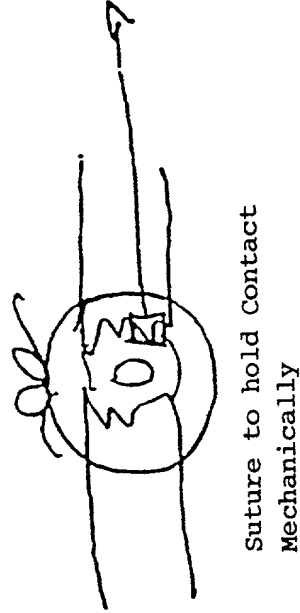
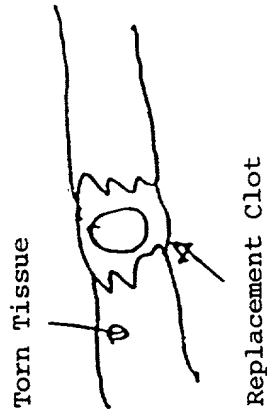


FIG. 3

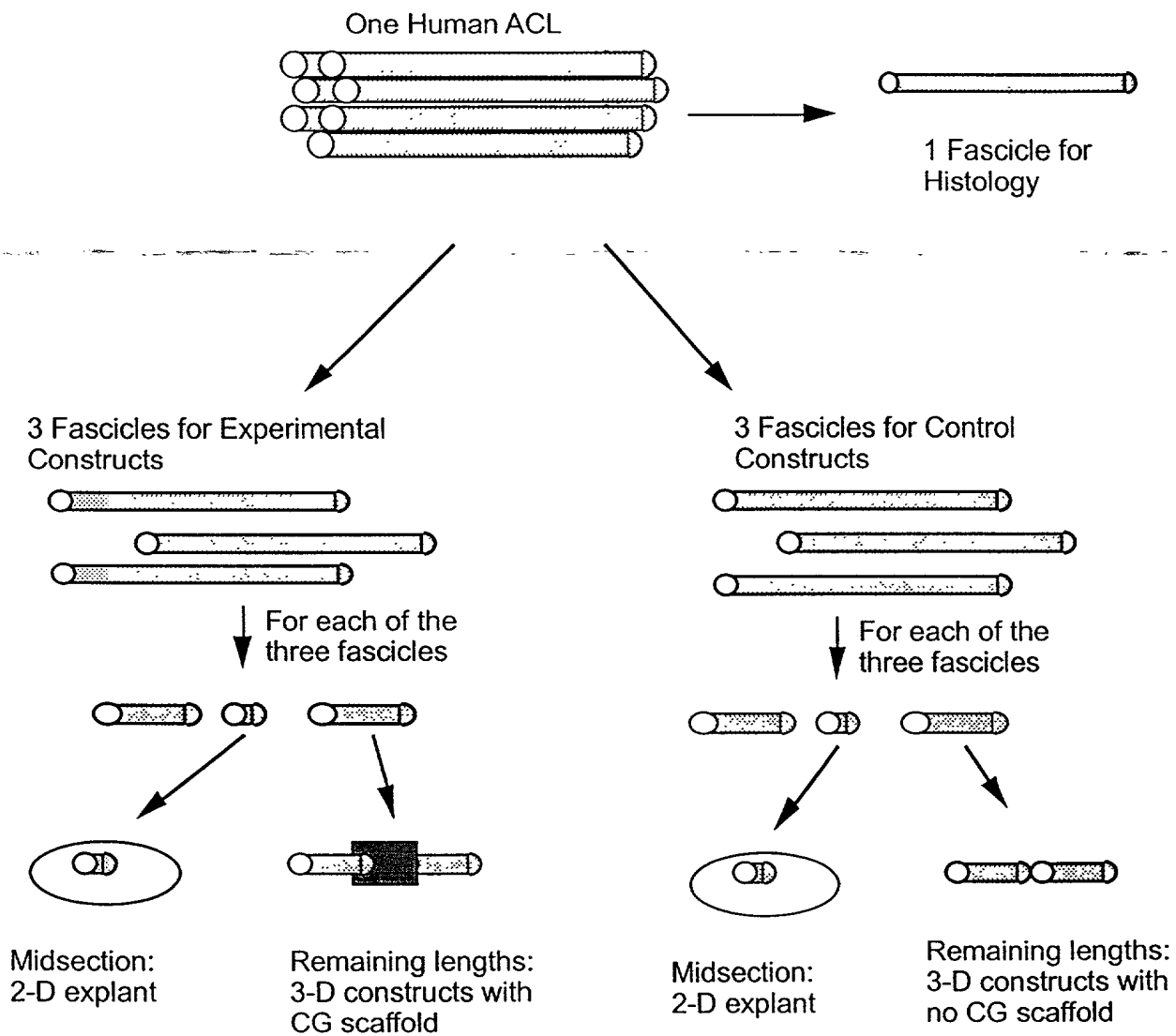
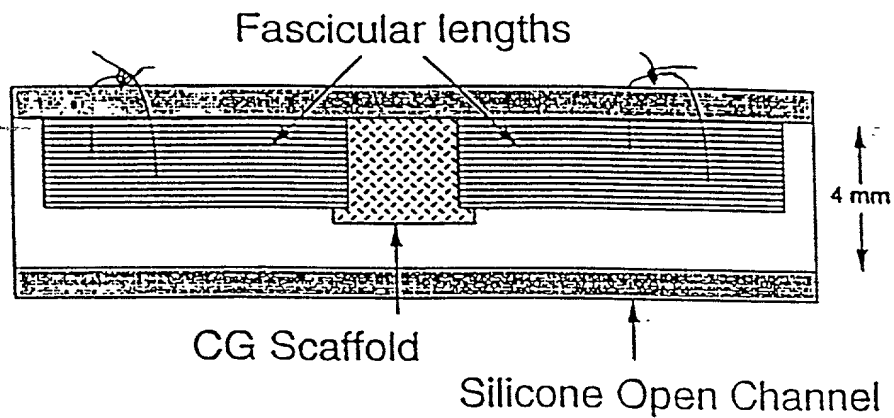


FIG. 4

Figure 5: Schematic of experimental and control three-dimensional constructs

Experimental Fascicle Construct



Control Fascicle Construct

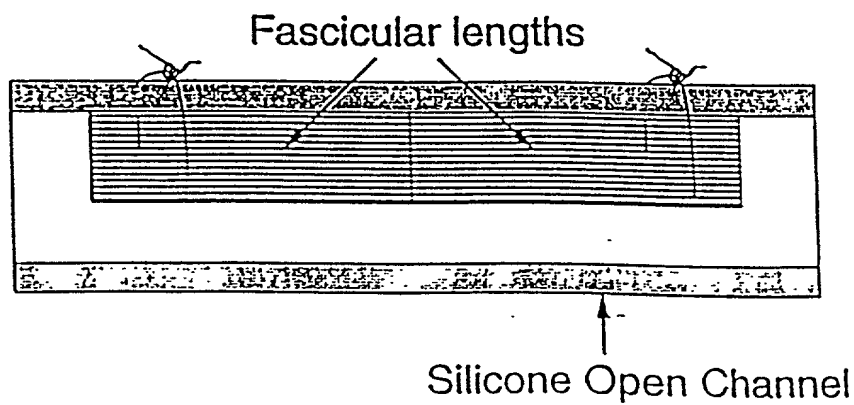


Figure 6: Effective Radius of Outgrowth as a Function of Time for Human ACL Explants

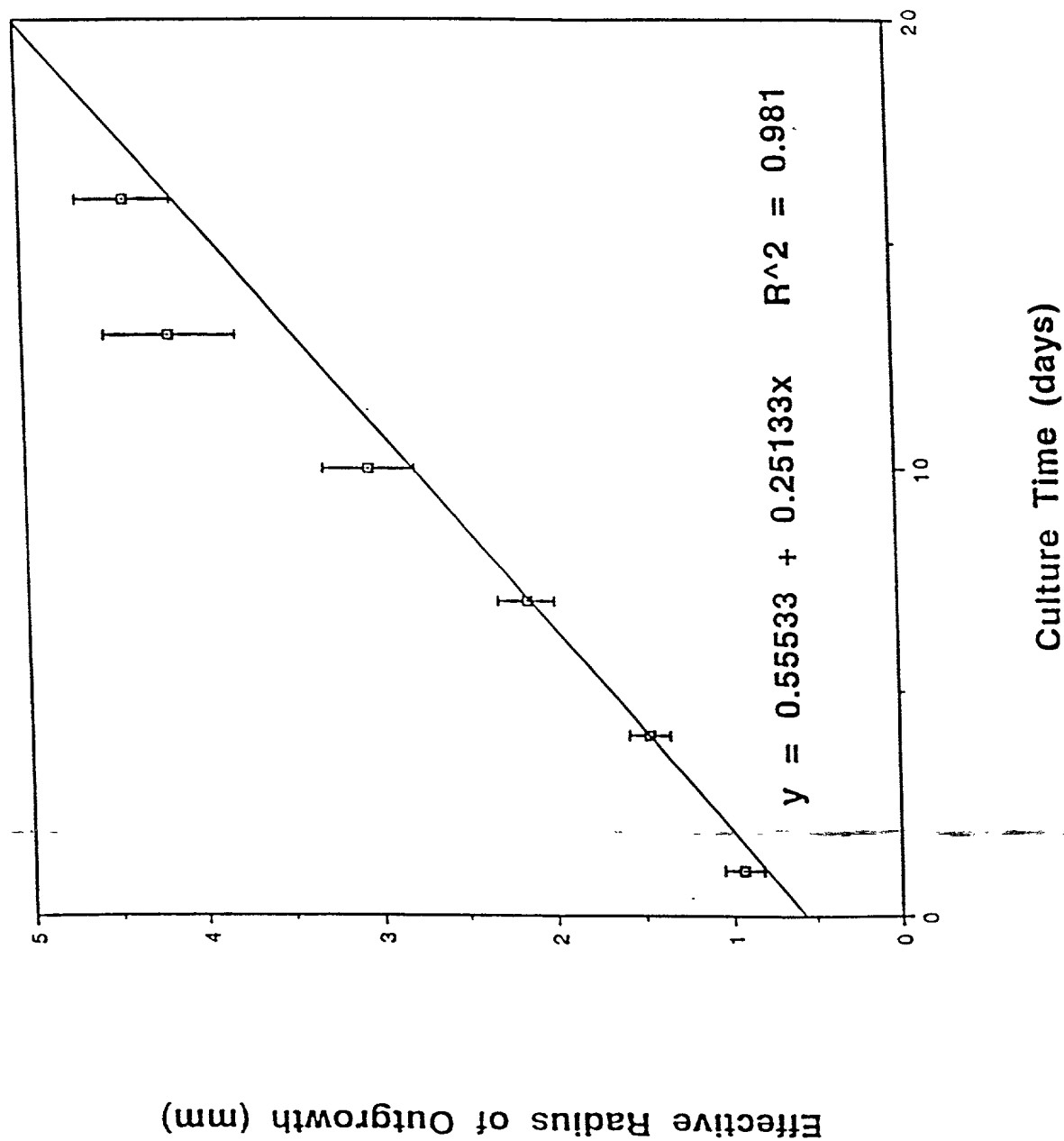


Figure 7: Changes in Cell Number Density in the Fascicle-
CG Scaffold Construct as a Function of Time in Culture

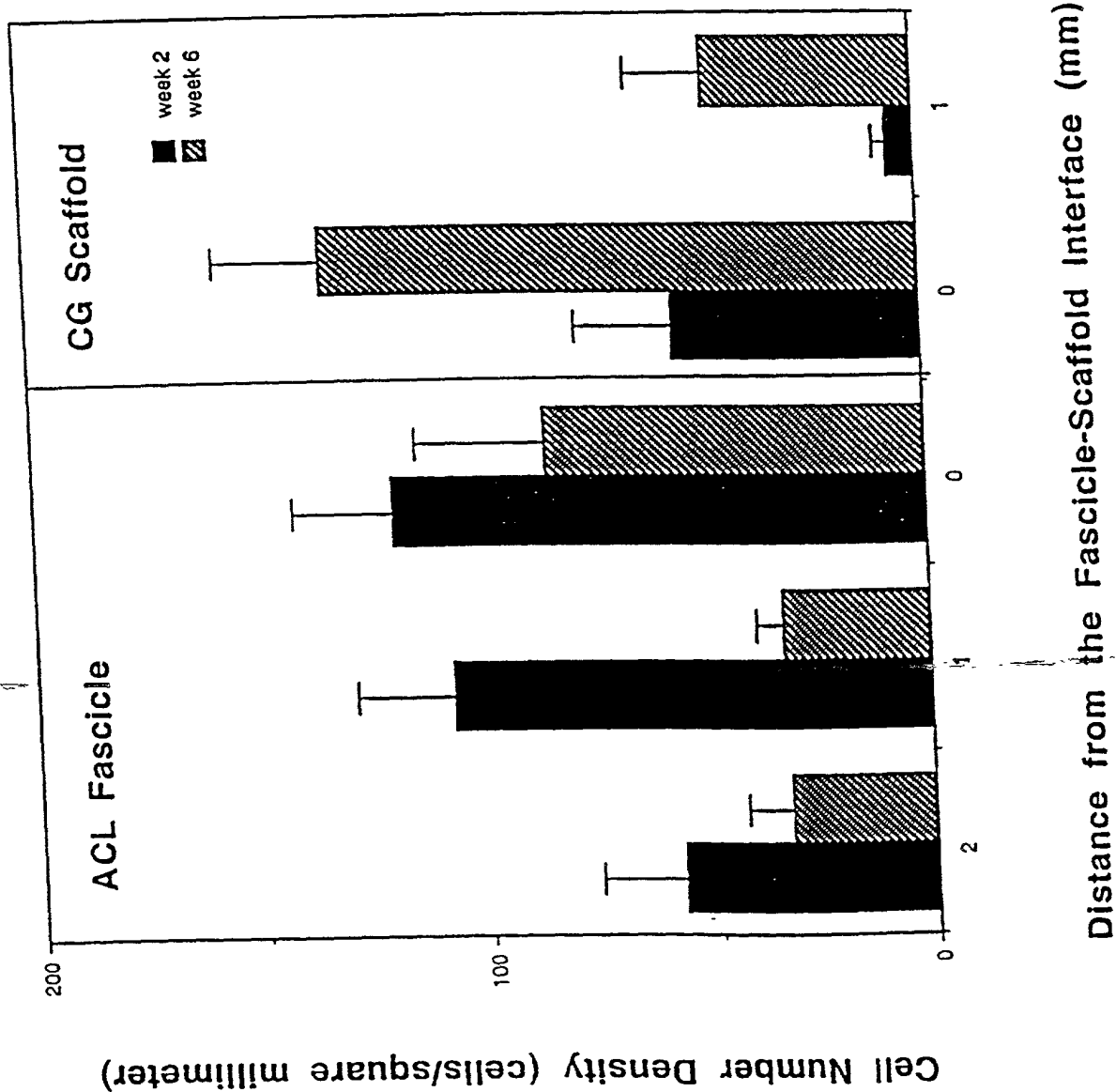
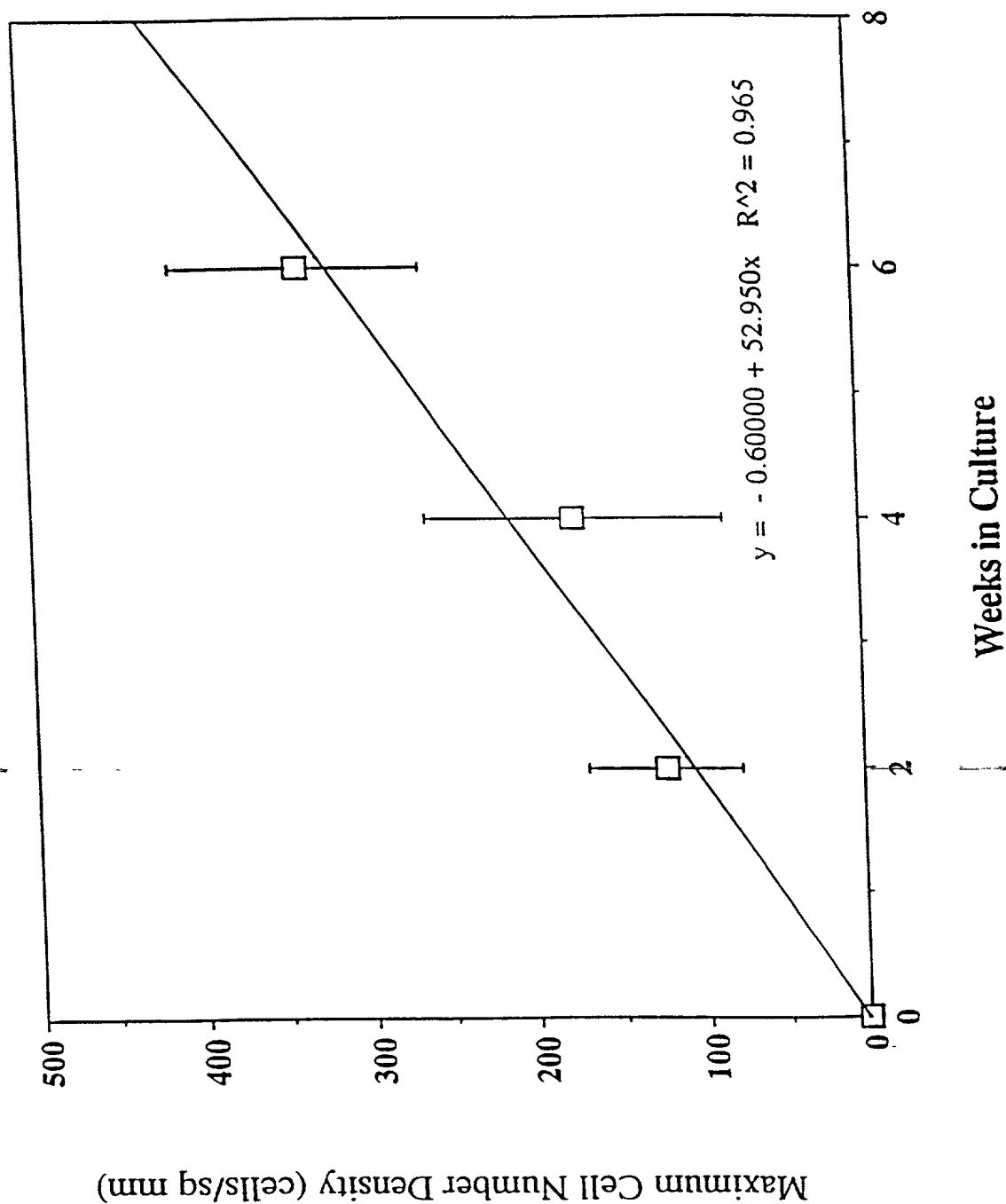


Figure 3: Maximum Cell Number Density in the Collagen-Glycosaminoglycan Scaffold as a Function of Weeks in Culture



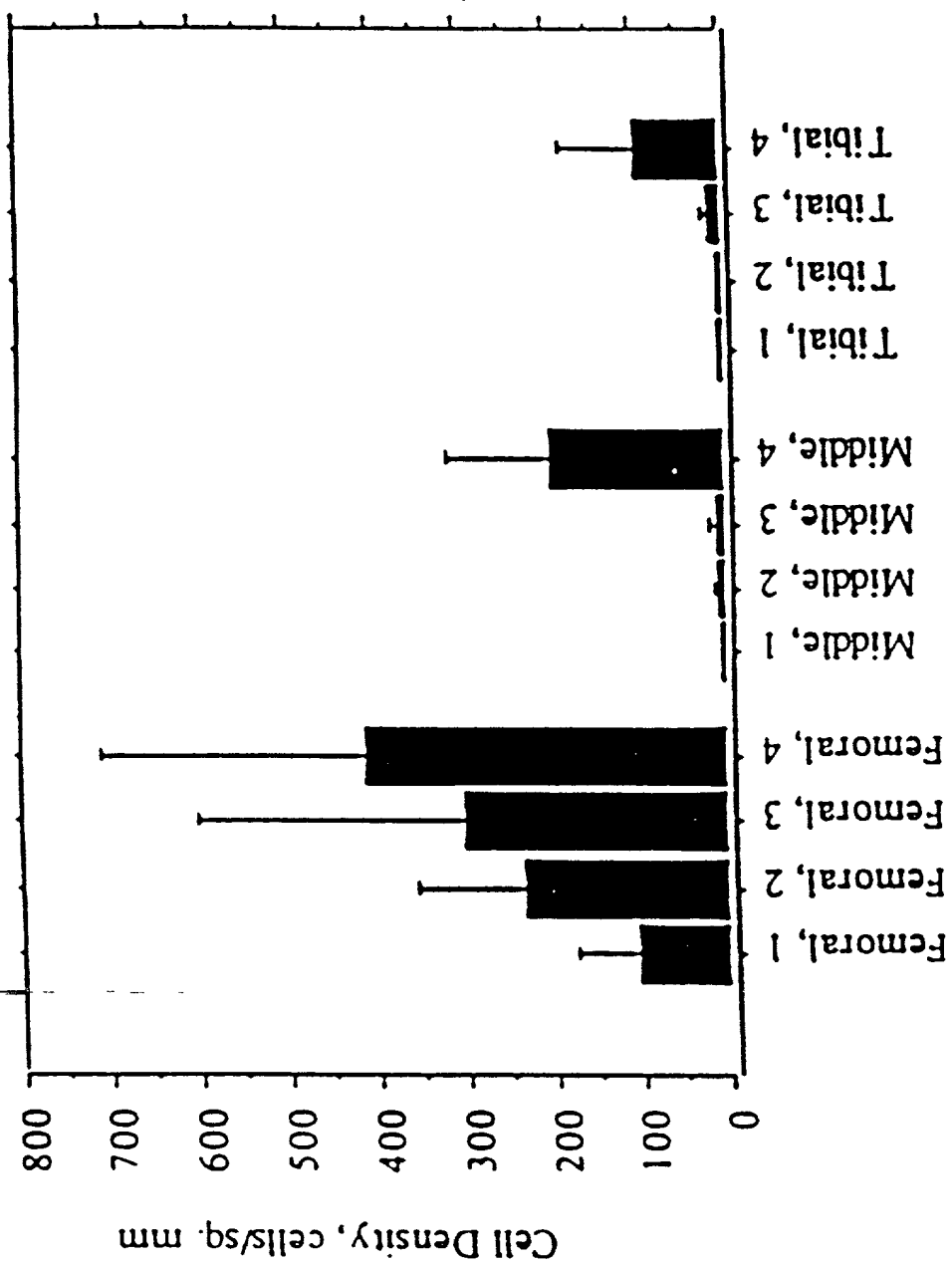


FIG. 9

Migration into CG Scaffold from Explants of Intact and Ruptured Human ACLs

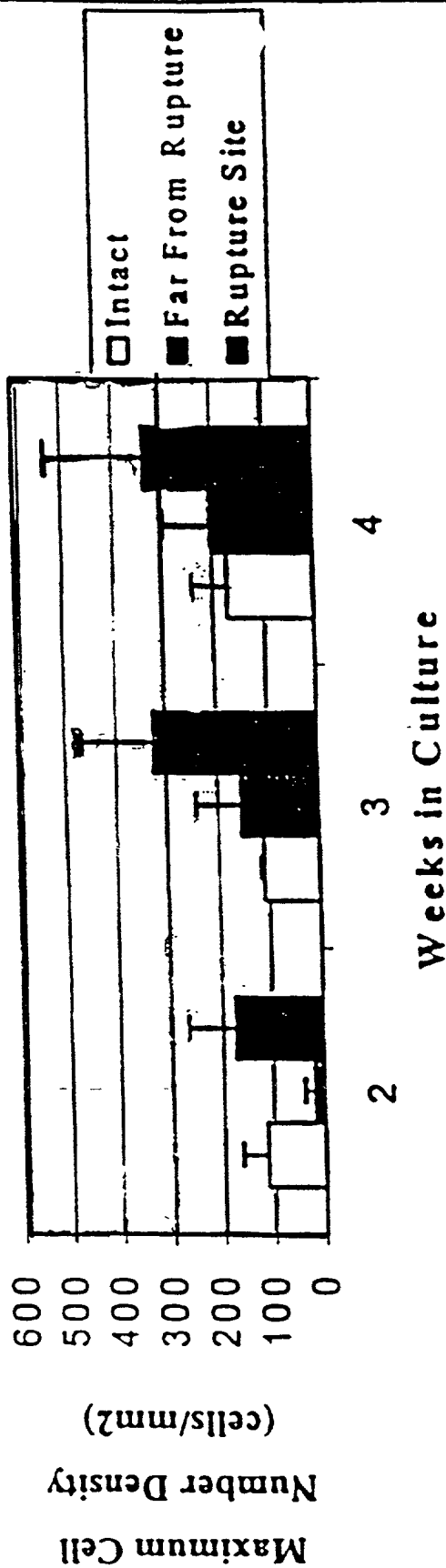


Figure 10 Mean \pm SEM

Figure 11. Cell number density near the site of rupture in the human ACL as a function of time after injury

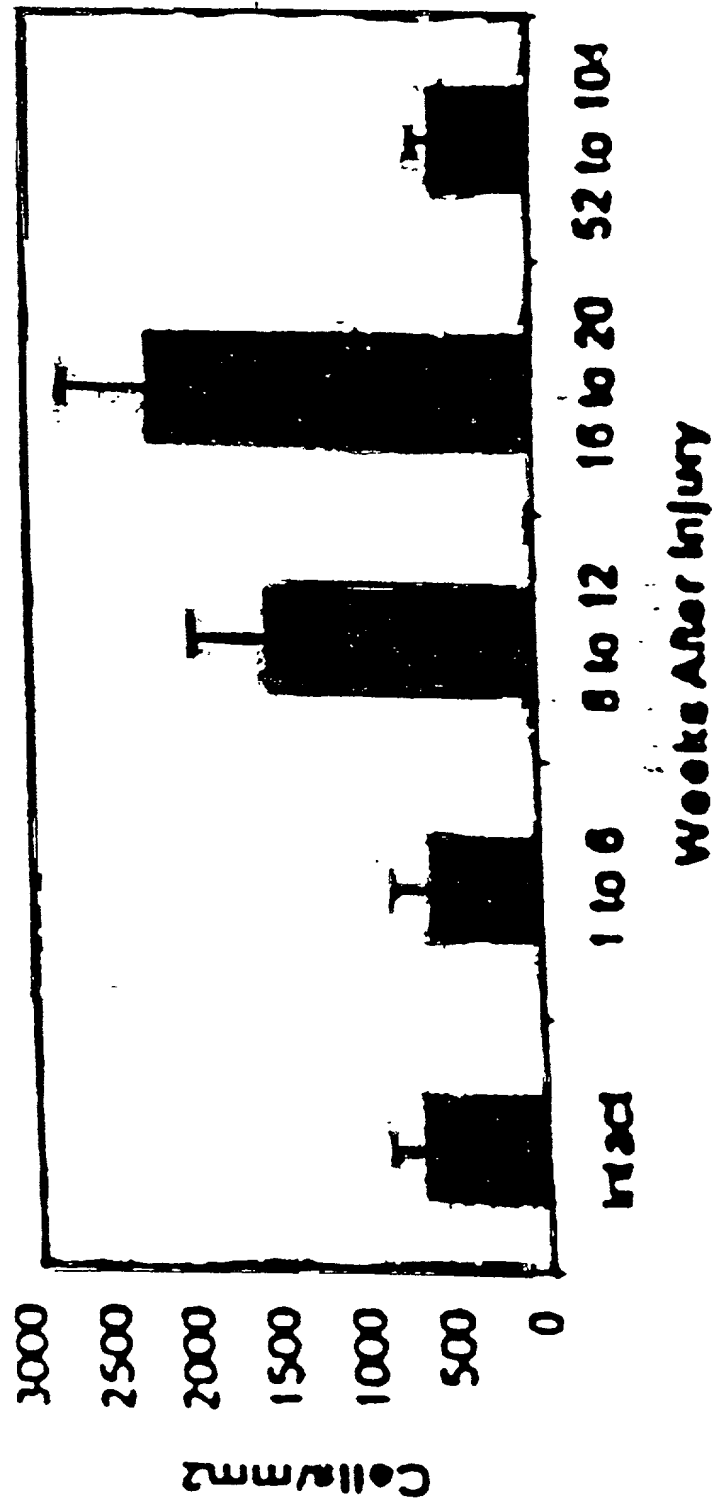


FIG. 11

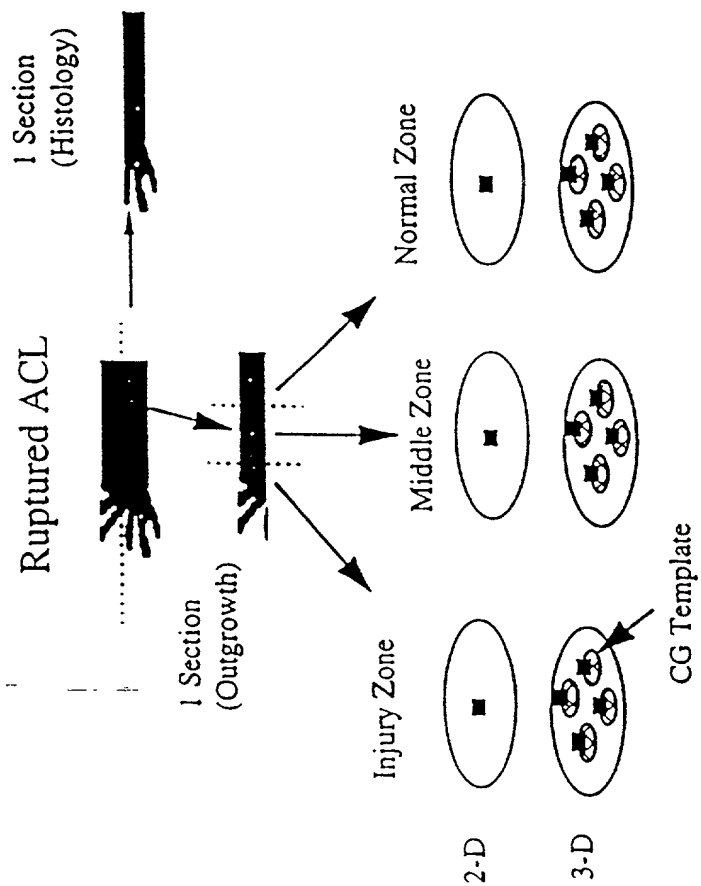


FIG. 12

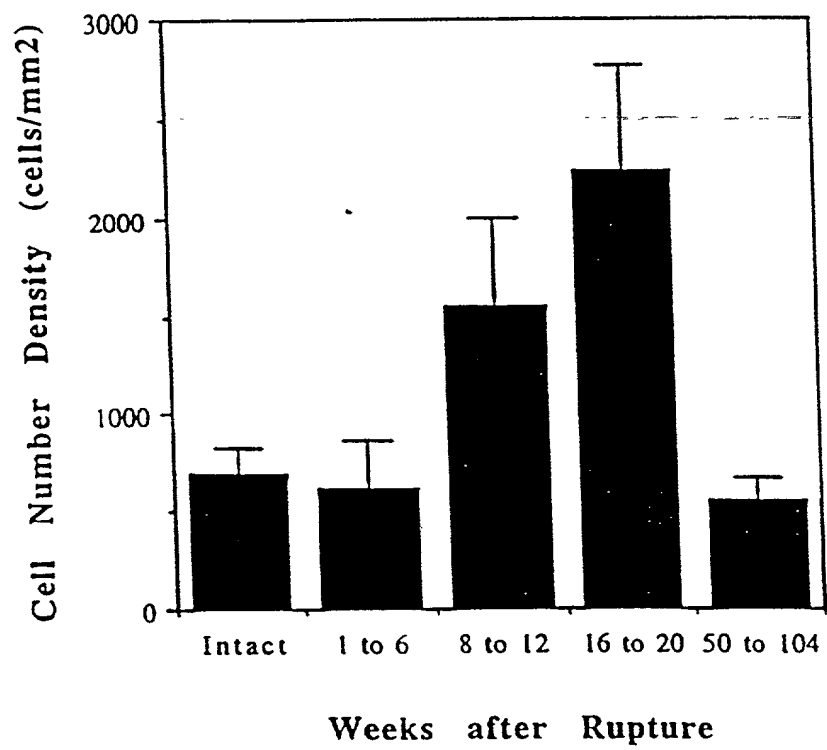


FIG. 13

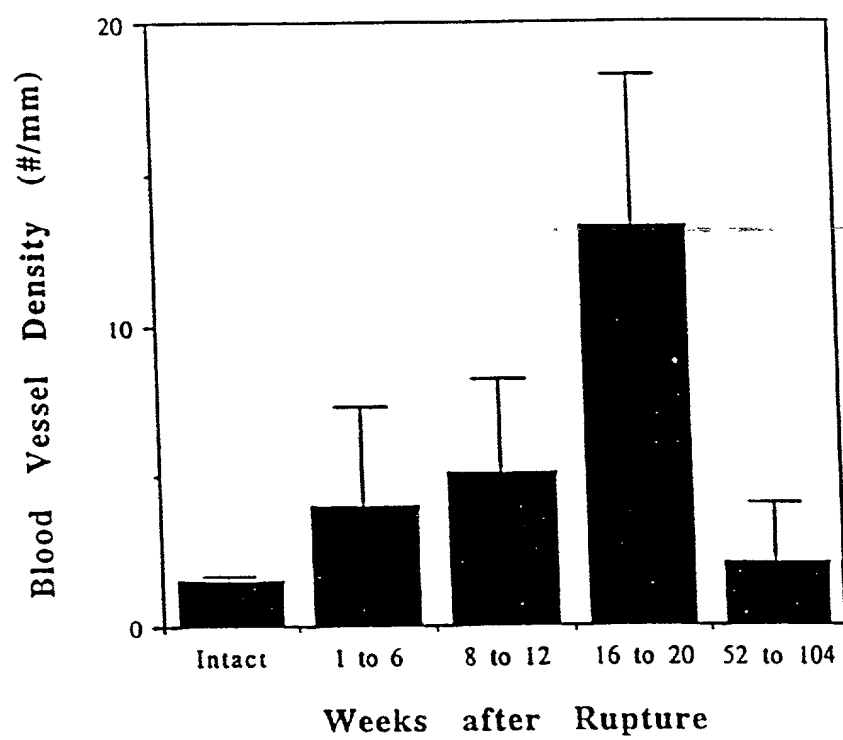
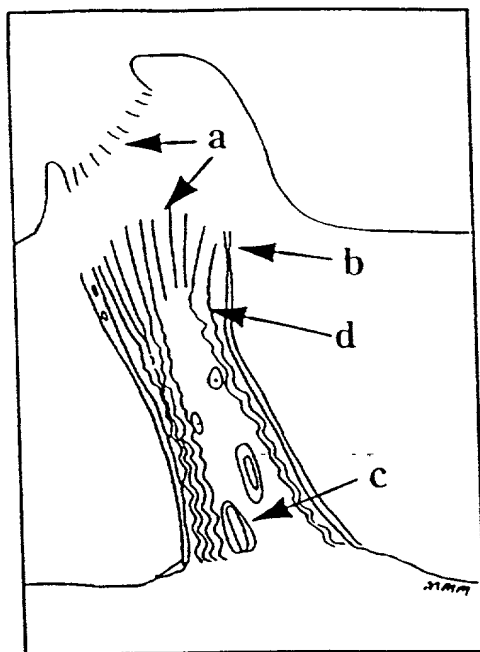
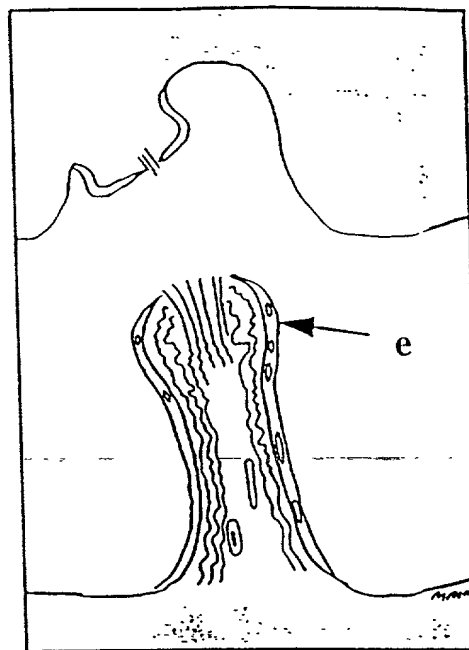


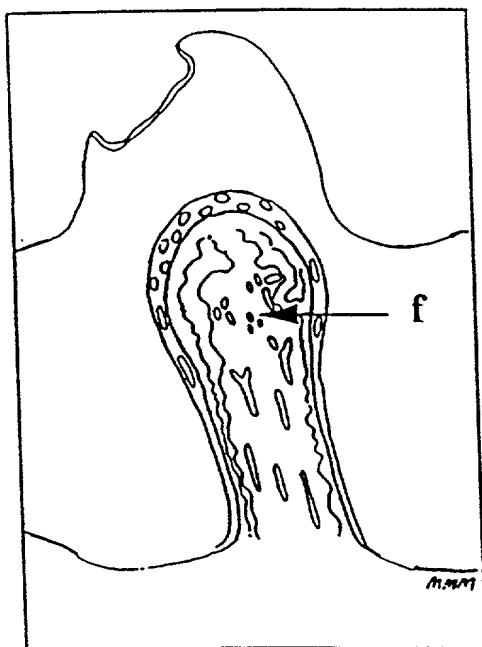
FIG. 14



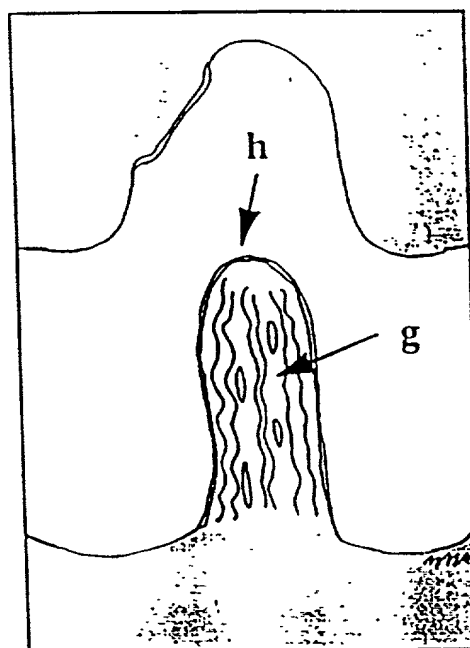
A. Inflammation



**B. Epiligamentous
Regeneration**



C. Proliferation



D. Remodelling

FIG. 15

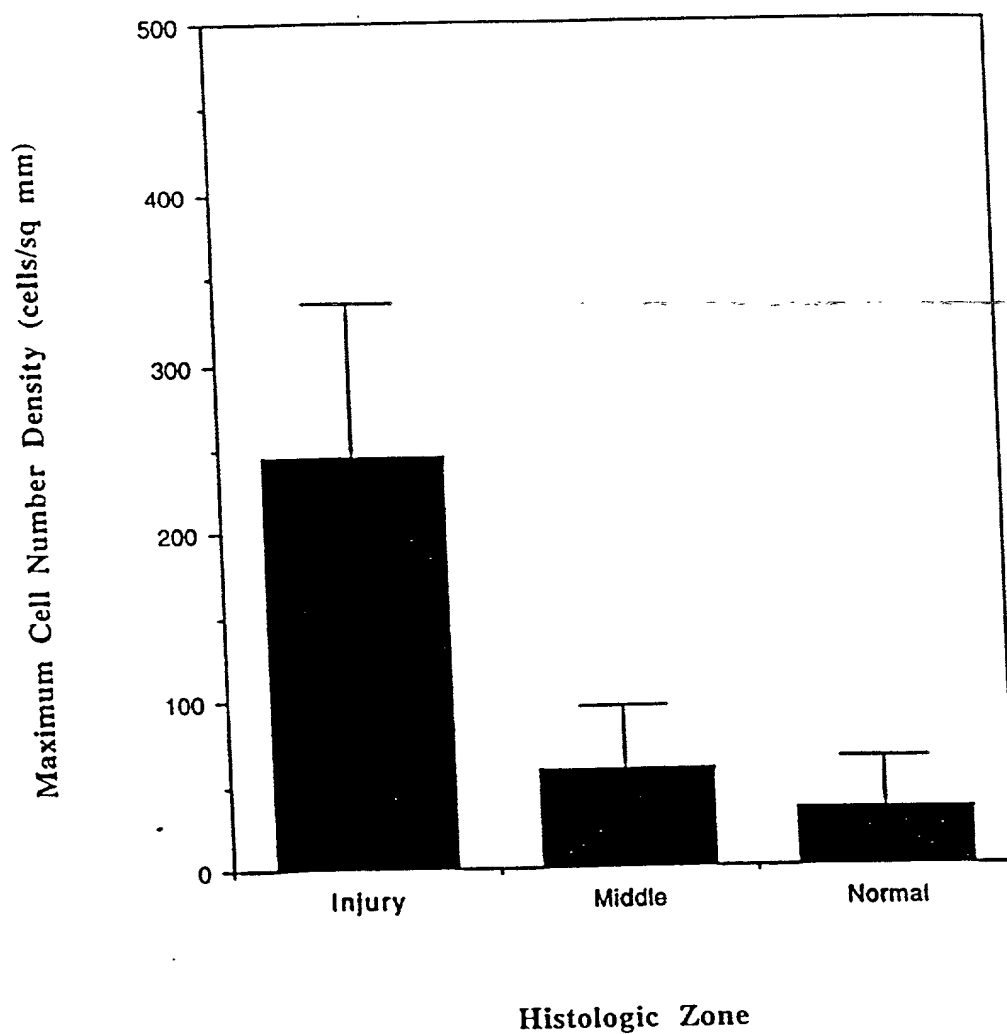


FIG. 16

Effect of Location on Outgrowth Rate for High and Low Serum Concentration

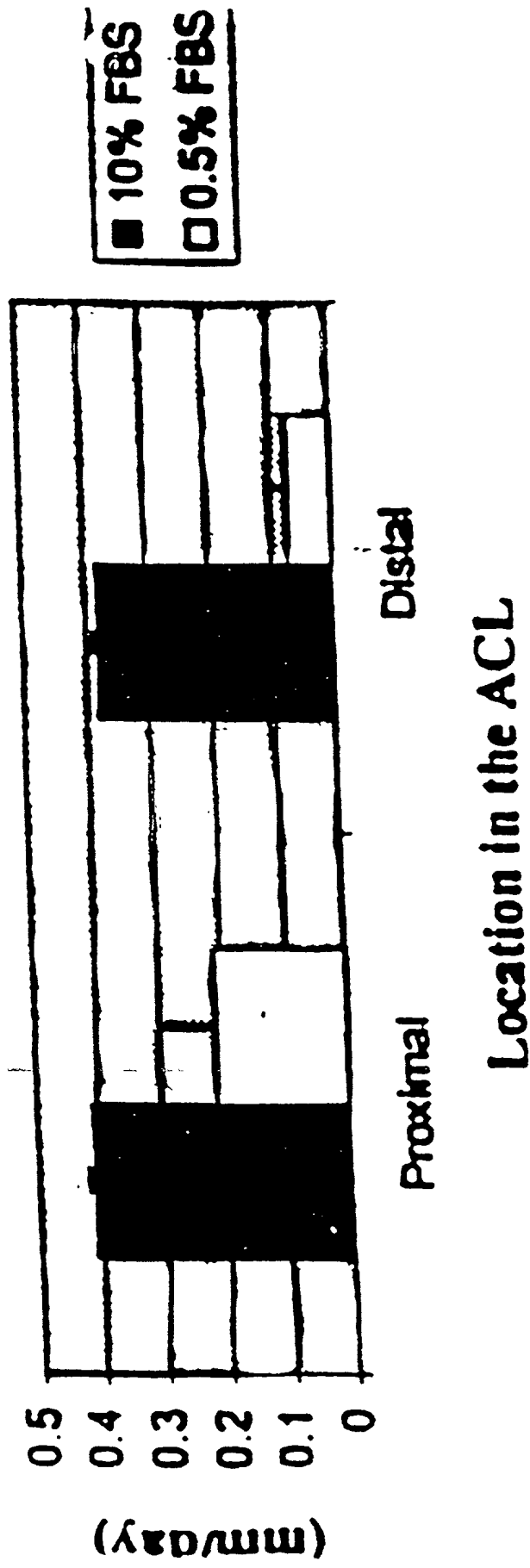


Figure 17 Mean \pm SEM

Outgrowth rates from human ACL explants as a function of location and TGF-beta concentration

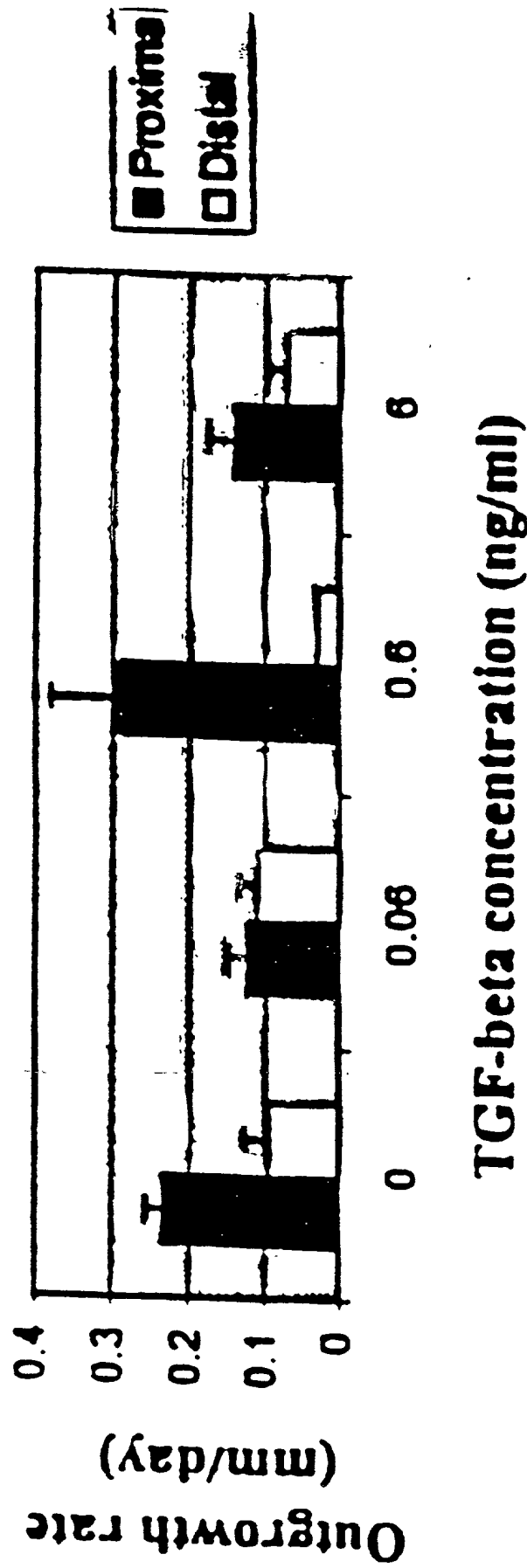


Figure / 8 Mean \pm SEM

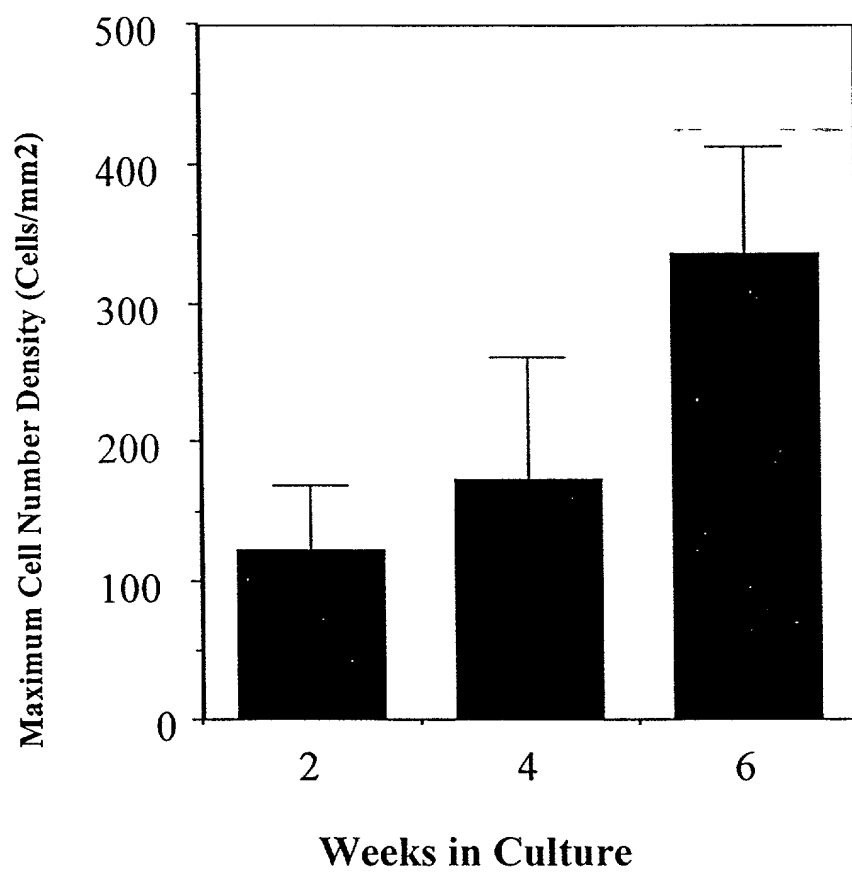
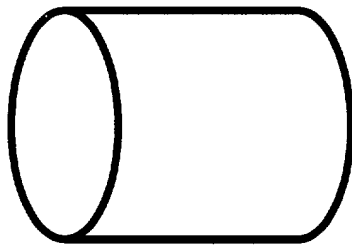
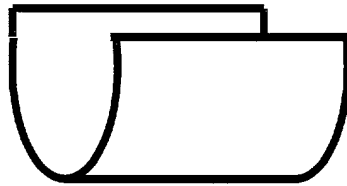


FIG. 19

Figure 20

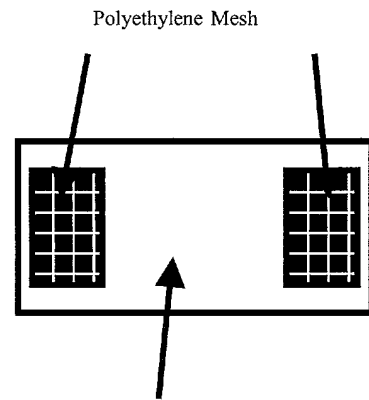


1" Length of 6mm
ID Silicon Tubing



Cut in half
lengthwise to form
trough

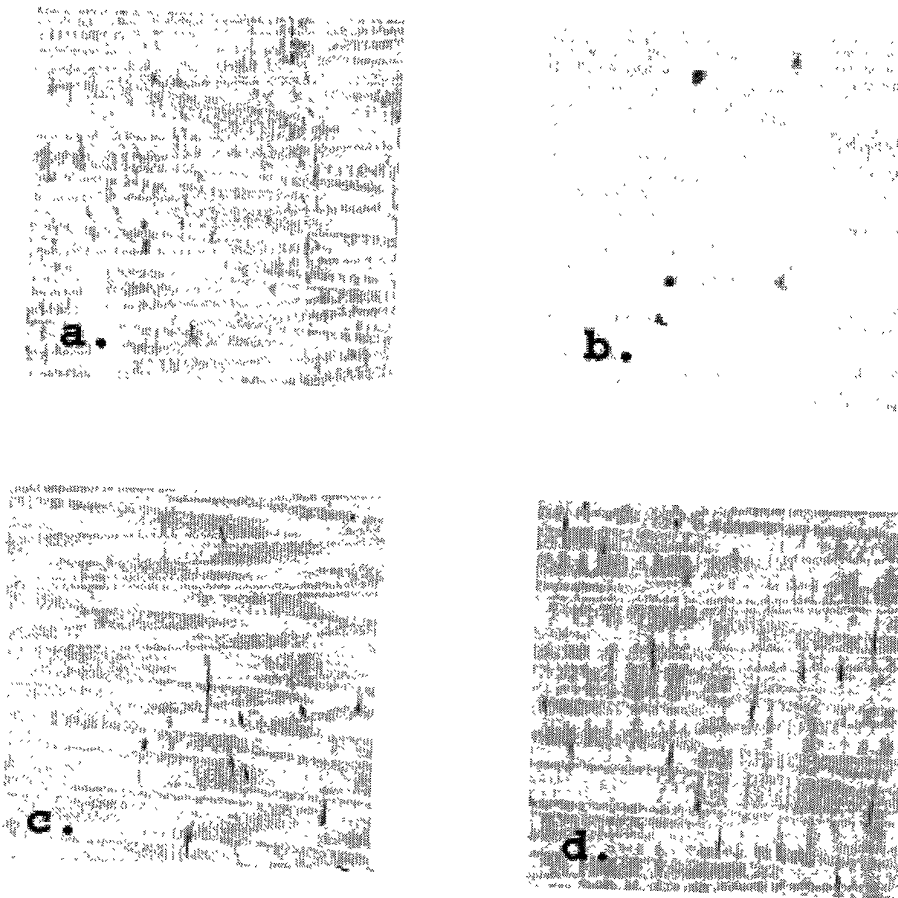
View from top



Polyethylene Mesh

300 microliters of gel
with cells added

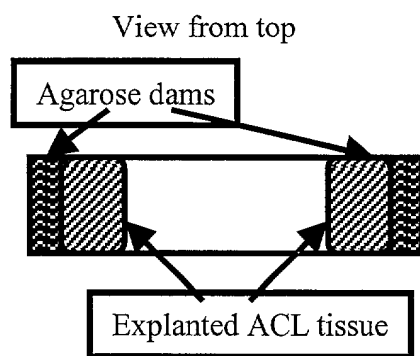
TRA 1540299v1



Experiment 11/00
a. Intact Human ACL
b. Gel with Cells at 3 hours of culture
c. Gel with Cells at 3 days of culture
d. Gel with Cells at 9 days of culture

Figure 21

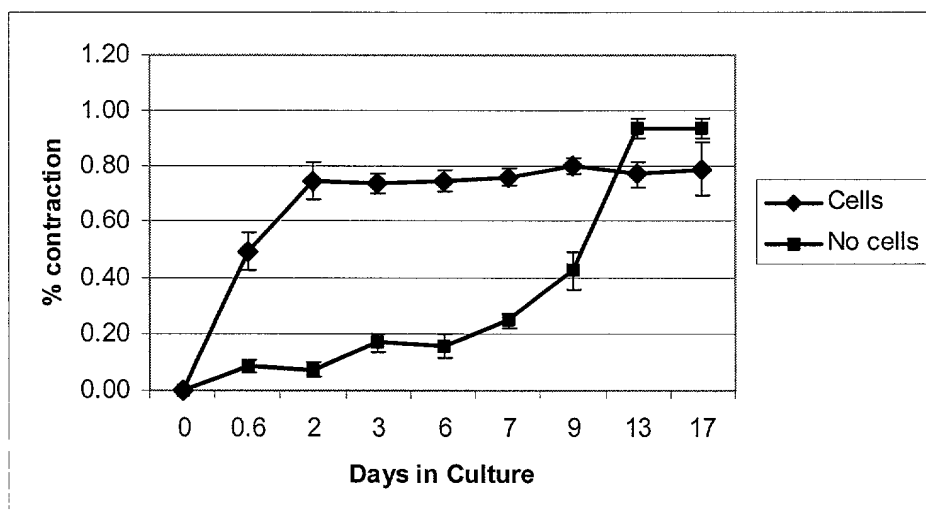
FIG. 22



200 microliters of gel added

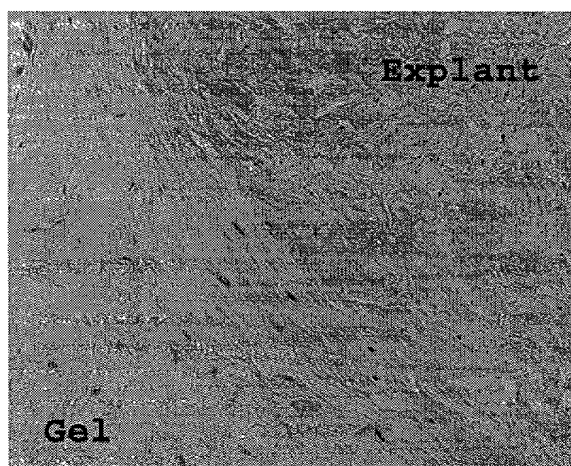
09/10/2017 10:20:07 AM

FIG. 23

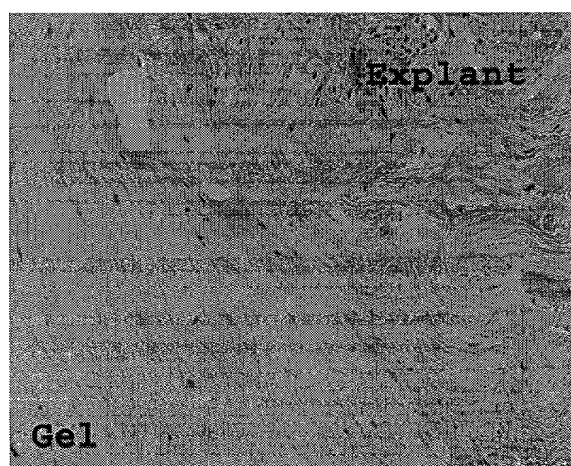


TRA 1540305v1

FIG. 24

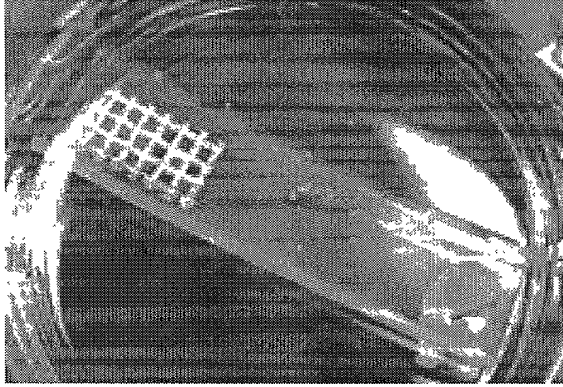


Day 21: Cells



Day 21: Cell-free

FIG. 25



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TRA 1540308v1

FIG. 26

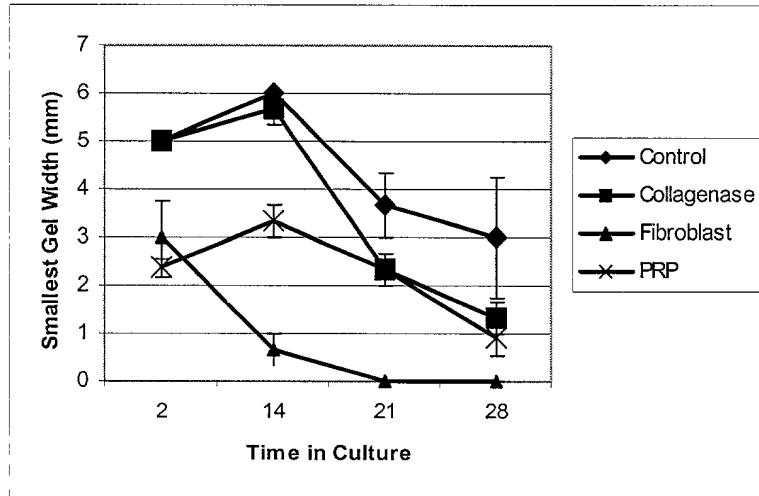
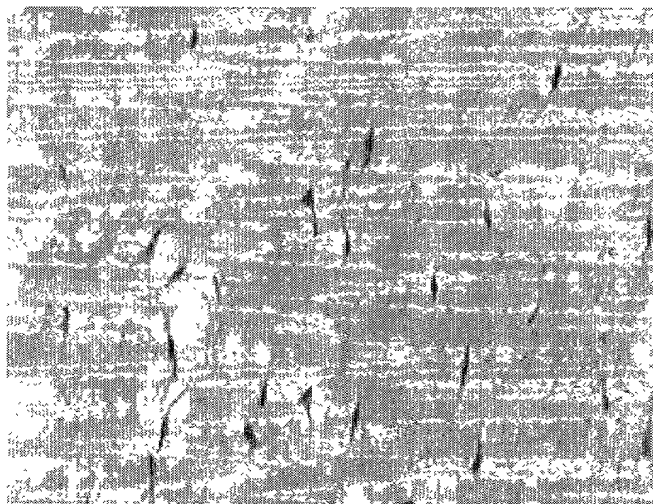


FIG. 27



09/20/2020 10:50:00

Fig. 28

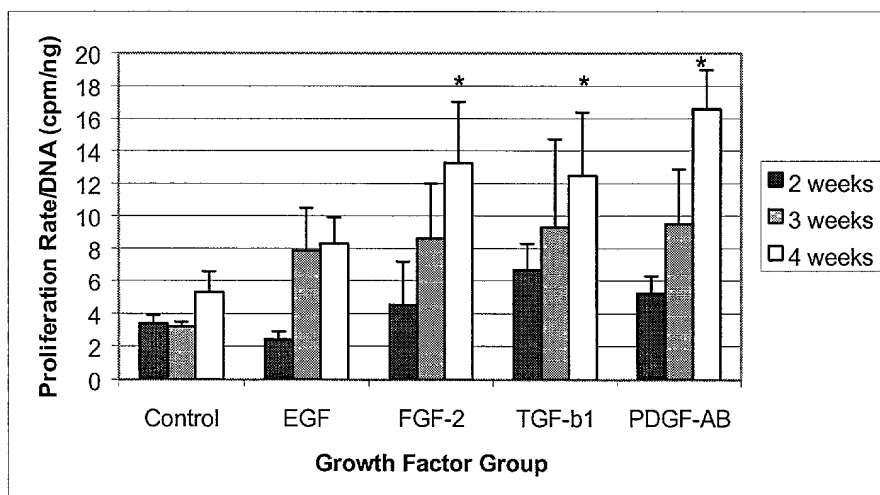
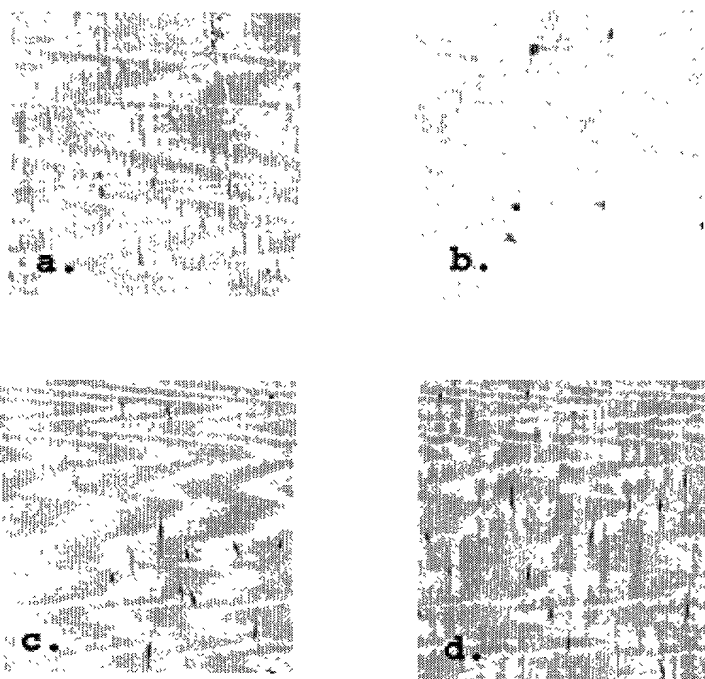


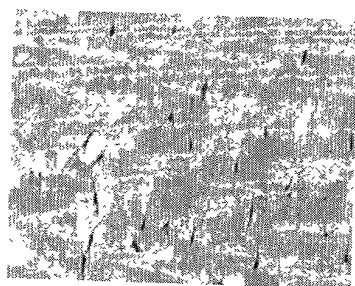
Fig. 29



Experiment 11/00

- a. Intact Human ACL**
- b. Gel with Cells at 3 hours of culture**
- c. Gel with Cells at 3 days of culture**
- d. Gel with Cells at 9 days of culture**

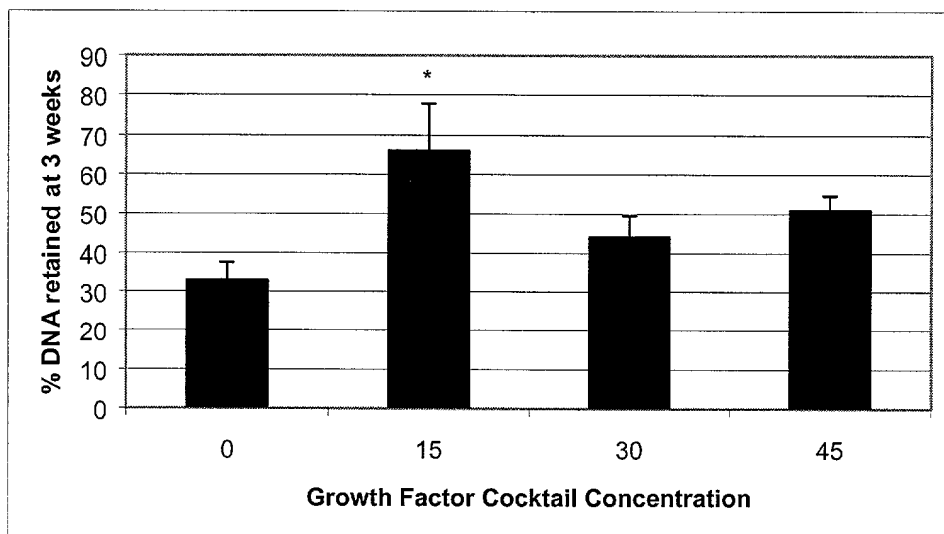
Fig. 30



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TRA 1547908v1

FIG. 31



TRA 1547910v1